

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW MAST ARM STRUCTURE SO THAT AN ADDITIONAL SIGNAL HEAD FOR THE EASTBOUND APPROACH CAN BE ADDED AT THE INTERSECTION OF MD 175 AND MD 108 IN HOWARD COUNTY. MD 175 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASING FOR THE EASTBOUND DIRECTION AND A RIGHT TURN OVERLAP PHASE FOR THE WESTBOUND DIRECTION.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER, INTERFACE EQUIPMENT, LOOP DETECTOR AMPLIFIER, AND ASSOCIATED HARNESSES SHALL REMAIN.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Ms. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8115

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8108

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9030	1 EA	[UPDATED] 10' MAST ARM SINGLE X 27'-0" POLE
9571	72 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS: 2 EA - R3-5L (30 IN. X 36 IN.) MAST ARM MOUNT, "LEFT TURN ONLY" 1 EA - D-3(1), (VAR. X 16 IN.) MAST ARM MOUNT, "LEFT ARROW, WATERLOO RD" 1 EA - ASSOCIATED SHIELD ASSEMBLY "EAST, MD 175, LEFT ARROW" (48 IN. X 75 IN.) 1 EA - ASSOCIATED SHIELD ASSEMBLY "WEST, MD 175, RIGHT ARROW" (30 IN. X 51 IN.) 1 EA - ASSOCIATED SHIELD ASSEMBLY "NORTH, MD 108, LEFT ARROW" (30 IN. X 51 IN.)

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

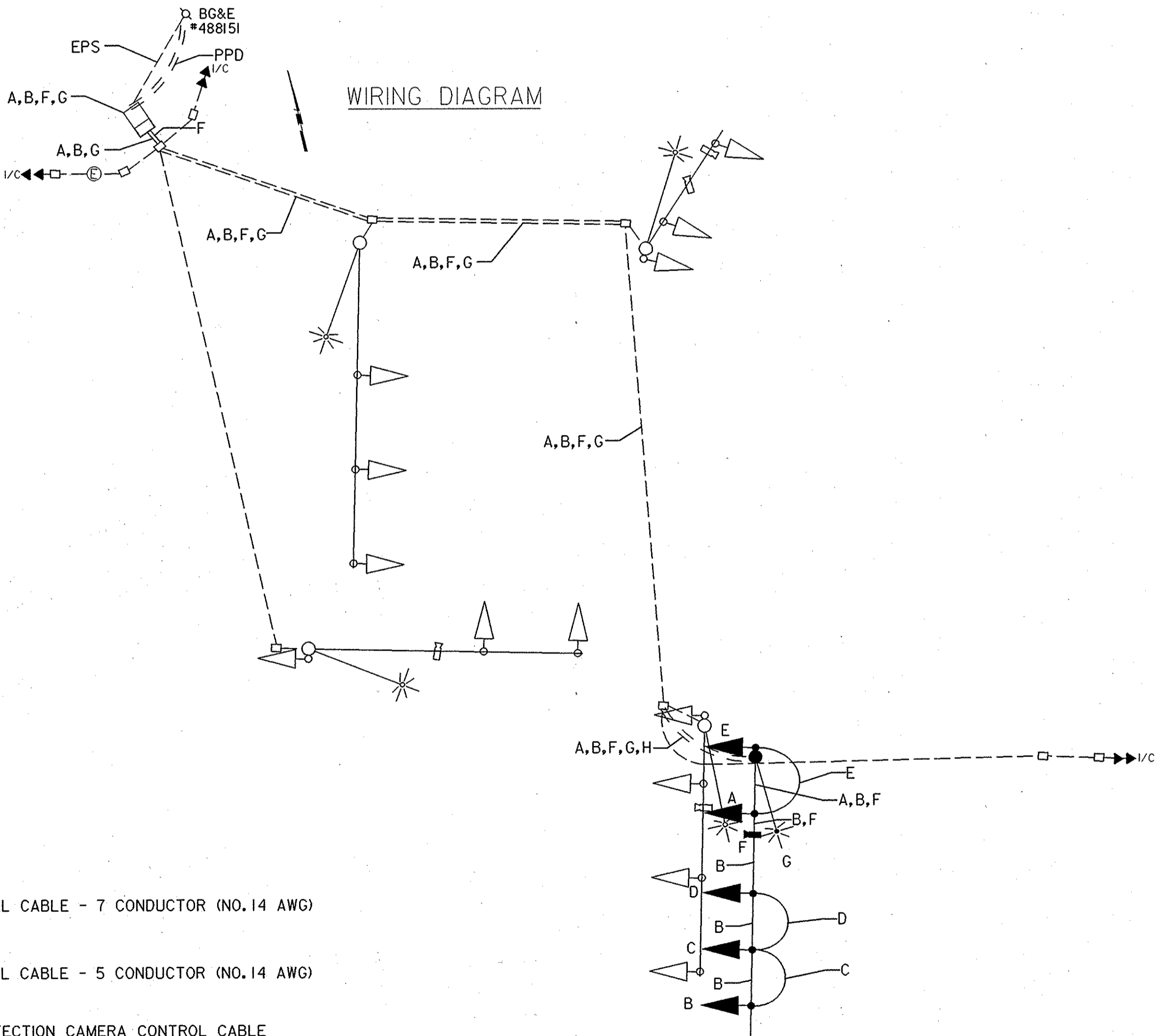
ITEM NO	QUANTITY	DESCRIPTION
9000	1 EA	VIDEO DETECTION CAMERA

NOTE: THE SHA SIGNAL SHOP WILL REMOVE AND SALVAGE THE EXISTING VIDEO DETECTION CAMERA. CONTACT MR. ED RODENHIZER AT 410-787-7650, 72 HOURS IN ADVANCE FOR PICK-UP.

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	1 CY	TEST PIT EXCAVATION
6000	25 LF	REMOVE AND RESET EXISTING TRAFFIC BARRIER
8002	10 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	5 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8004	1 EA	15 FOOT LIGHTING ARM ON EXISTING STRUCTURE
8020	1 EA	CONTROL CABLE, 400 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8030	1 EA	REMOVE FOUNDATION 12 INCH DEPTH
8031	150 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8036	350 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
8040	5 CY	CONCRETE FOR SIGNAL FOUNDATION
8043	35 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8049	35 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8064	72 SF	INSTALL OVERHEAD SIGN
8065	1 EA	VIDEO DETECTION CAMERA
8069	1 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8078	60 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8079	800 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
8082	1 EA	INSTALL STEEL POLE AND SINGLE MAST ARM, ANY SIZE



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
PHASE 1 & 6	→G	→G	→G	G	G	G	R	R	R	R	R	R	R	R	⊥
PHASE 1 CHANGE	→Y	→Y	→Y	G	G	G	R	R	R	R	R	R	R	R	⊥
PHASE 2 & 6	→R	→R	→R	G	G	G	G	G	G	G	G	G	R	R	⊥
PHASE 2 & 6 CHANGE	→R	→R	→R	Y	Y	Y	G	G	G	Y	Y	Y	R	R	⊥
PHASE 7	→R	→R	→R	R	R	R	G	G	G	R	R	R	G	G	⊥
PHASE 7 CHANGE	→R	→R	→R	R	R	R	Y	Y	Y	R	R	R	Y	Y	⊥
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	⊥

- A-ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
- B-ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- C-ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- D-ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- E-ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- F-VIDEO DETECTION CAMERA CONTROL CABLE
- G-ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
- H-NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

EPS-EXISTING POWER SOURCE

PPD-PROPOSED UNDERGROUND TELEPHONE DROP TO BE INSTALLED BY OTHERS

UTILITY LEGEND

- E-ELECTRIC CABLES
- A-AERIAL CABLES
- T-TELEPHONE CABLES
- F-FIBER-OPTIC
- SD-STORM DRAIN
- G-GAS MAIN
- W-WATER MAIN
- S-SEWER MAIN

STV Incorporated
engineers / architects / planners / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

TOD No.: AT782-52
SHA No.: HO431A53/B53
MD 175 @ MD 108



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 (LITTLE PATUXENT PARKWAY) AT
MD 108 (WATERLOO ROAD)

GENERAL INFORMATION

SCALE NONE DATE 09/2006 CONTRACT NO. AT7825185

DESIGNED BY SDY COUNTY HOWARD
DRAWN BY VGN LOGMILE 13010815.24
CHECKED BY BAB T.I.M.S. NO. H034
F.A.P. NO. TOD NO.

DRAWING NO. TS-558 J of GZ SHEET NO. 2 OF 2

PLOTTED: FRIDAY, SEPTEMBER 08, 2006 AT 03:13 PM
FILE: I:\PROJECTS\0312513\0312513.0024\DRAWINGS\TRAFFIC\PSG-N000-MD175.DGN